ARK of MIAMI Inc. Eduardo Capriles 1235 Washington Ave. Miami beach FL 33189 Ph: 305 695-1036

Miami, Oct. 22, 1999

Office of compliance
CHFZ-300
Electriconic Product Reports,
Center for Devices and Radiological Health,
2098 Gaither Road
Rockville Maryland, 20850
AK: Dale Smith / Collin Figueroa

Dear Sirs:

As per your request I'm submiting a mew Laser Light show report for the above establishment. For your reference, the original varience for this installation was issued to Pasiely Park Miami on August 14, 1995, varience number 94V-0457, Accession number 94A2317, then two years later a new varience was reissued for this same installation under the Blue Dot Entertainment name which managed the location until January of 1997. Recently the management of this location has been transferred to ARK of Miami Inc. a Company not related in any way to the previous tenants of this location. They are planning on reopening the establishment on November 17th, 1999.

The laser light show equipment and set up will be carefully examined and refurbished to bring it back to its original performance. I'm well familiarized with this equipment and its set up since I have been the Laser Safety officer and operator far this installation since 1995, basically it will be the same show, same certified equipment, same laser safety officer, as well as same hours of operation. However the location of the control booth has been changed as illustrated in attachment 9.1 included in this report.

All original reports, records, manuals, operational logs, etc., are available for inspection.

I'm filling a new Varience application on behalf of ARK of Miami Inc. to comply with regulations for the Administration and enforcement of the Radiation Control for Heath and Safety Act of 1968, as they pertain to laser light shows.

I trully appreciate your cooperation in processing this information, if additional reports or any other information is necessary to process this new Varience, please contact Eduardo Capriles at 305 321-6490.

Thank you

Eduardo Capriles Laser Safety Officer From-

Deparatment of Health and Numan Services Public Health Service Food and Orug Administration

APPLICATION FOR A VARIANCE FROM 21 CFR 1040.11(c) FOR A LASER LIGHT SHOW, DISPLAY. OR DEVICE

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NOTE: No look their show, projection system, of device may vary from community with 21 CTR 1040 116.1 in Joseph or too warns

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1 NAME OF COMPANY				
ARK of Miami Inc.				
2 ADDRESS OF COMPANY (Income all' 1 and) (It It is				
1235 Washington Ave,	Miami Beach	Fla, 33139.		
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Eduardo Capriles L.S	05 321-6490		6-28-99	
for applicant feducate the variance to be in ettect for a contract of the cont		ine date of issue of an investment organization	and taken and being radificate from the	
		Cription and USE		
2. LIST NAME ANDION MODEL NUMBERS) FOR THE L				
Customized LaserPro -	Model number	1 N T		
b. PRODUCT FOR WRICH A MARIANCE IS REQUESTED		: PRODUCT IS INTENDED TO BE USED AT ANY ONE LOCATION		
A A SER DISPLAT DEVICE A PROJECTOR FOR A LASER LICAY SHOW		A MORE THAN 15 DAYS		
A projector for a laser licht show A laser light show		MORE THAN S BUT NOT MORE THAN 15 GAYS		
Other ()		LESS THAN 5 DAYS		
		; FOUR IS INTENCED TO RUN FOR		
C PROJECTORS ARE INTENDED FOR SALE, LEASE, OR LOAN TO OTHER LASER LIGHT SHOW PRODUCERS		- WORE THAN & MONTHS		
		_ 16 MONTHS		
d. PRODUCT IS INTENDED FOR USE IN A		LESS THAN I MONTH		
Planetarium or other dome projection structure Theater		NOT APPLICABLE Im III-)		
		OTHER (Notice)		
MOTELMOTEL BALLROOM OR MEETING ROOM 570RE DISPLAYS		a GEODUCT (CTILIZES TO		-
L' STORE DISPLATS TRADE SNOW OR CONVENTION		PRODUCT UTILIZES THE FOLLOWING LASER EFFECTS FRONT SCHEEN PROJECTIONS		
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PAVILION		HOLOGRAPHIC SISPLATS		
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MUSEUM		REFLECTIONS FROM STATIONARY MIRRORS OR MIRRORED SURFACES		
OUTDOOR UPENCLOSED TREA		them there !		
OTHER (beens)		STATIONARY IRRADIATION OF ROTATING MIRROR BALLS. ETC		
PRODUCT IS INTENDED TO BE USED		SCAMMING IRRADIATION OF ROTATING MIRROR BALLS, ETC.		
AT ONLY ONE (MANY LOCATION		FIBER OPTIC PROJECTIONS		
AT A VARIETY OF IN- LOCATIONS		FOG. SMOKE, OR OTHER SCATTERING ENHANCEMENT EFFECTS		
OTHER INTERIOR	j	D OTHER INTIME REMOTE		
	(canners	
Lasermedium • III del. del. 4	LASER RAGATI ON LEVELS WAVE LENGTHS IND.		DF A	KPOMER.05 =~~,
	520-457nm			atts
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ANY LASER RADIATION IS PULSED OR SCANNED. GIVE	THE PULSE DURATION AND S	ATE AND SCALAR SCALAR		
The state of the s	many become 100 Meh b	マンク タイマルショウ マカモのむ	enct and amplitude	

- ASON FOR REQUESTING VARIANCE

COMPLIANCE WITH THE LIMITS OF 21 CFR 1040 LIGH WOULD RESTRICT THE INTENDED USE OF THE PRODUCT BECAUSE COMPLIANCE WOULD LIMIT THE OUT POWER TO THE EXTENT THAT THE DESIRED EFFECTS WOULD NOT BE SUFFICIENTLY VISIBLE

OTHER OR ADDITIONAL EAPLANATION (NAVIII-

	-01-99 11:05 From- T-524 P.12/17 F-255 MANNER IN WHICH IT IS PROPOSED TO DEVIATE FROM THE REQUIREMENT OF THE ACCESSIBLE EMISSION LEVEL WOULD BACEED THE T-524 P.12/17 F-255 LIT IS PROPOSED TO DEVIATE FROM THE PROVISIONS OF 21 CFR 10-0.11(c) IN THAT THE ACCESSIBLE EMISSION LEVEL WOULD BACEED THE
	ACCESSIBLE EMISSION LIMITS SPECIFIED IN 21 CFR 1040.11(c). IT IS PROPOSED TO DEVIATE FROM THE PROVISION OF 21 CFR 1040.11(c) AS FOLLOWS:
-1	N/A
-	ADVANTAGES TO BE DERIVED FROM SUCH DEVIATION LASER LIGHT SHOWS AND DISPLATS ARE ACCEPTED POPULAR MEDIA IN ENTERTAINMENT AND THE ARTS. USE OF FOWER LEVELS IN EXCESS OF THE LIMITS IMPOSED BY 21 CFR 1040.11IC; IS NECESSARY TO ACHIEVE THE REQUIRED EFFECTS IN THESE MEDIA. OTHER OR ADDITIONAL ADVANTAGES (DESIGNED 2010 CARDED):
	N/A
	EXPLAIN THE ALTERNATE MEANS OF RADIATION PROTECTION TO BE PROVIDED. (Check as many boxes as apply, in Item 14 "Remains," missly any boxes of checked, using additional sheets as necessary, Sigle any other means of radiation protection that will be used.)
а	ALL LASER PRODUCTS, SYSTEMS. Shows. AND PROJECTORS WILL BE CERTIFIED 70 COMPLY WITH 21 CFR 1040.10 AND THE CONDITIONS OF THIS VARIANCE AND WILL BE REPORTED AS REQUIRED BY 24 CFR 1002.10 AND 1002.12 USING THE REPORTING GUIDES PROVIDED FOR SUCH PURPOSE. THESE ACTIONS WILL BE ACCOMPLISHED PRIOR TO ANT INTRODUCTION INTO COMMERCE.
ā	EFFECTS NOT SPECIFICALLY INDICATED IN THIS VARIANCE APPLICATION WILL NOT BE PERFORMED. NO OTHER EFFECTS WILL BE ADDED UNTIL AN AMENDMENT TO THE VARIANCE HAS BEEN OBTAINED AND TM REQUIRED REPORTS OR SUPPLEMENTS. AS APPLICABLE, HAVE BEEN SUBMITTED.
C.	XI SCANNING. PROJECTION OF REFLECTION OF LASER AND COLLATERAL RADIATION (LIGHT SHOW RADIATION) INTO AUDIENCE OR OTHER ACCESSIBLE UNCONTROLLED AREAS WILL NOT BE PERMITTED EXCEPT FOR DIFFUSE REFLECTIONS PRODUCED BY THE ATMOSPHERE. ADDED ATMOSPHERIC SCATTERING MEDIA. AND TARGET SCREENS.
0.	LASER RADIATION LEVELS IN EXCESS OF THE LIMITS OF CLASS I WILL NOT BE PERMITTED AT ANY POINT LESS MAN 10 METERS ABOVE ANY SURFACE UPON WHICH PERSONS OTHER THAN OPERATORS. PERFORMERS, OR EMPLOYEES ARE PERMITTED TO STAND OR 25 METERS BELOW OR IN LATERAL SEPARATION FROM ANY PLACE WHERE SUCH PERSONS ARE PERMITTED TO BE OPERATORS. PERFORMERS, AND EMPLOYEES WILL NOT BE REQUIRED OR ALLOWED TO VIEW RADIATION ABOVE THE LIMITS OF CLASS I OR BE EXPOSED TO RADIATION ABOVE THE LIMITS SPECIFIED IN 21 CFR 1040.1 Kg.
c	ANY PRODUCT WHICH RELIES ON SCANNING TO MEET ACCESS. EXPOSURE OR PRODUCT CLASS LIMITS WILL INCORPORATE A SCANNING SAFEGUARD SYSTEM WHICH DIRECTLY SENSES SCANNER MOTION AND WHICH WILL REACT FAST ENOUGH TO PRECLUDE EXCEEDING THE APPLICABLE LIMIT.
1.	AU LASER LIGHT SHOWS SHALL BE UNDER THE DIRECT AND PERSONAL CONTROL OF TRAINED. COMPETENT OPERATOR(S). THE OPERATOR(S) WILL:
	(1) IMMEDIATELY TERMINATE THE EMMISSION OF LIGHT SHOW RADIATION IN THE EVENT OF ANY UNSAFE CONDITION:
	IS BE LOCATED WHERE AU SEAM PATHS CAN BE DIRECTLY OBSERVED AT ALL TIMES. AND
	(3) BE AN EMPLOYEE OF THE VARIANCE MOLDER WHO WILL BE RESPONSIBLE FOR THE TRAINING AND CONDUCT OF THE OPERATOR.
g.	THE MAXIMUM LASER PROJECTOR OUTFUT POWER WILL NOT EXCEED THE LEVEL REQUIRED TO OSTAIN THE INTENDED EFFECTS.
n.	THE PROJECTION SYSTEM (I.E., THE PROJECTOR AND AU OTHER COMPONENTS USED 70 PRODUCE THE LIGHTING EFFECTS) WILL BE SECURELY MOUNTED OR IMMOBILIZED TO PREVENT UNINTENDED MOVEMENT OR MISAUGNMENT, BEAM LIMITERS WILL BE PROVIDED AS AN INMERENT PART OF THE SYSTEM DESIGN TO PREVENT OVERFILLING OF SCREENS: BEAM STOPS. TARGETS, ETC.
i.	ASER PROJECTORS WILL NOT BE DELIVERED TO ANY OTHER PARTY UNDER AN AGREEMENT OF SALE. LEASE, OR LOAN UNLESS AND

- I. LASER PROJECTORS WILL NOT BE DELIVERED TO ANY OTHER PARTY UNDER AN AGREEMENT OF SALE. LEASE, OR LOAN UNLESS AND UNTIL THE RECIPIENT DEMONSTRATES THAT THEY HAVE A VARIANCE IN EFFECT AT THE TIME OF DELIVERY THAT PERMITS THEM TO PRODUCE LASER LIGHT SHOW INCORPORATING SUCH PROJECTOR.
- IN ADDITION TO THE REQUIREMENTS OF 21 CFR 1040 1001. THE MANUFACTURER OF LASER PROJECTORS/SYSTEMS WILL PROVIDE TO PARTIES WHO PURCHASE. LEASE, OR BORROW THE EQUIPMENT, ADEQUATE USERS INSTRUCTIONS FOR SAFE INSTALLATION AND OPERATION AND WHICH EXPLAIN THE RESPONSIBILITY OF THE RECIPIENT AS AN INDEPENDENT LIGHT SHOW MANUFACTURER TO SUBMIT THE REQUIRED REPORTS AND APPLY FOR AND OBTAIN A VARIANCE FROM CORN PRIOR TO INTRODUCTION INTO COMMERCE OF ANY LASER LIGHT SHOWS.
- THE REQUIREMENTS OF 21 CFR 1002.3013k1) AND & WILL BE ACCOMPLISHED THROUGH THE USE OF WRITTEN PROCEDURES FOR SETUP. AUGMENT, TESTING, AND PERFORMANCE OF EACH SHOW. THESE PROCEDURES WILL BE IN SUFFICIENT DETAIL 70 ENSURE COMPLIANCE WITN 21 CFR 1040,10, THE CONDITIONS OF THIS VARIANCE, AND THE CONTROL OF ACCESS TO RADIATION AR&AS USING THE PROCEDURES DESCRIBED IN THE ANSI Z136.1 STANDARD FOR THE SAFE USE OF USERS (AMERICAN NATIONAL STANDARDS INSTITUTE. 1430 BROADWAY, NEW YORK, NY 100181 OR ANY OTHER EQUIVALENT USER CONSENSUS STANDARD AND, WHERE APPLICABLE, STATE OR LOCAL REQUIREMENTS, LASER RADIATION AREAS WHICH CAN CONTAIN RADIATION LEVELS ABOVE THE LIMITS SPECIFIED IN 21 CFR 1040.171C; WILL BE CLEARLY IDENTIFIED BY THE POSTING OF WARNING SIGNS AND/OR RESTRICTING ACCESS THROUGH PHYSICAL MEANS (SUCH AS PRESSURE SWITCHES, PHOTOCELLS, BARRIERS, GUARDS, ETC.). THESE REQUIREMENTS APPLY TO TEMPORARY AREA! ISUCH AS DURING SET-UP AND ALIGNMENT PROCEDURES; AND TO FINAL OR PERMANENT AREAS. THE VARIANCE HOLDER WILL RETAIN THE RECORDS OF THESE PROCEDURES AND THE RESULTS OF ALL TESTS AS REQUIRED BY 21 CFR 1002.31. A COPY OF THE VARIANCE APPLICATION. THE APPROVAL LETTER, CUARENT PROCEDURES, AND RECORDS RELATING TO EACH PARTICULAR SHOW WILL BE WITH THE OPERATOR OR OTHER RESPONSIBLE INDIVIDUAL AND WILL BE MADE AVAILABLE FOR INSPECTION BY FDA AND OTHER RESPONSIBLE AUTHORITIES.

Dec-01-99 11:05 From-

:05 From

PROPOSED EFFECTS INCLUDING A STATEMENT OF THE MAXIMUM POWER OUTPUT IN TENDED SUCH NOTIFICATIONS WILL BE MADING THE NECESSARILY BE LIMITED. TO

- (1) THE CENTER FOR DEVICES AND RADIOLOGICAL HEALTH OFFICE OF COMPLIANCE INFZ-3121 8757 GEORGIA AVE.. SILVER SPRING 20910 PROVIDING THE INITIAL AND CLOSING DATES FOR FIXED INSTALLATIONS AND THE ITINERARY FOR MOBILE SHOWS IN ALL TION UNLESS ALL ASPECTS OF EACH SHOW HAVE BEEN REPORTED AND THE ACCESSION NUMBERS CLEARLY REFERENCED. EXHIBITION OF EACH SHOW AND THE ACCESSION NUMBERS CLEARLY REFERENCED. EXHIBITION OF EACH SHOW AND THE ACCESSION NUMBERS CLEARLY REFERENCED. EXHIBITION OF EACH SHOW AND THE REGULATIONS AND THIS VARIANCE.
- (2) THE FEDERAL AVIATION ADMINISTRATION IF AN FOR VY PPILE ITIONS INTO OPEN AIRSPACE AT ANY TIME II EL INCLUDING SET AIR OBJECTS TO ANY LASER EFFECTS. THE OBJECTIONS WILL BE RE SOLVED ANY CONDITIONS REQUESTED 67 FAA VILL BE ADMERED TO. IF THESE CONDITIONS CAN NOT BE MET, THE OBJECTIONABLE EFFECTS WILL BE PELETED FROM THE SK
- 13) STATE AND LOCAL RADIATION CONTROL OFFICESIAGENCIES FOR ALL SHOWS TO BE PERFORMED WITHIN THEIR JURISDICTIONS
 REQUIREMENTS OF STATE AND LOCAL LAW WILL BE SATISFIED AND ANY OBJECTIONS RAISED BY LOCAL AUTHORITIES WILL BE F
 SOLVED OR THE EFFECTS DELETED. ILISTS OF FEDERAL AND STATE OFFICES ARE AVAILABLE FROM THE CENTER FOR DEVICES A
 RADIOLOGICAL REALTH UPON REQUEST!

14.	REMA.	RKS

CERTIFICATION

I CERTIFY that all of the above information and statements are true, complete, and correct to the best of my knowledge and acknowledge that my variance application may be denied of my variance may be re-oked if this application is found to be laise, misleading, or incorrect in any material way to have submitted and will submit all reports reduited by 21 CFR 1002-10 and 1002-12 on the laser equipment and showist. I further understand that I may be reduited by requisition or by the Director. Center for Devices and Radiological mealth, to supply such other information as may be necessary to evaluate and action this application.

Sollapriles

16 NAME ITYPE OF Prints

Eduardo Capriles

17 TITLE

Laser Safety Officer